TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-06-08-24** **Date: 04-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 04-05-20

Lab ID	:	**CP-2020-06-08-24**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-08-24** **Date: 04-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.44	–
5	Bulk Density(Compacted) (Kg/l)	1.5	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-06-08-24** **Date: 04-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.63	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-08-24** **Date: 04-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	3150	3348	67.0	33.0	25-55
4	4.75 mm	1457	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-08-24** **Date: 05-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	589	589	3.9	96.1	90-100
3	20 mm	4898	5487	36.6	63.4	30-70
4	10 mm	7143	12630	84.2	15.8	10-35
5	4.75 mm	2118	14748	98.3	1.7	0-5
6	Pan	252	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-08-24** **Date: 05-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.38	–

Note:

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TEST RESULTS OF STEEL

Date: 07-05-20

Lab ID	:	**CP-2020-06-08-24**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-05-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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Lab ID : **CP-2020-06-08-24** **Date: 15-05-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	102	40692	193.5	4.8	4.8
2	401	102	40775	194.5	4.8	
3	403	99	40112	193.4	4.8	
4	399	101	40223	194.9	4.8	
5	404	102	41048	198.4	4.8	
6	402	101	40780	193.3	4.7	
7	404	102	41282	194.4	4.7	
8	400	100	40050	192.8	4.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:

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Lab ID : **CP-2020-06-08-24** **Date: 15-05-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	102	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	102	202	
3	403	99	200	
4	399	101	201	
5	404	102	202	
6	402	101	199	
7	404	102	201	
8	400	100	200	
9	402	102	200	
10	400	100	201	
11	400	100	199	
12	401	102	200	
13	400	99	202	
14	404	102	203	
15	403	99	202	
16	403	100	200	
17	403	101	202	
18	402	99	202	
19	401	101	202	
20	401	100	201	
Average of 20	**402**	**101**	**201**	

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-06-08-24** **Date: 15-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-05-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	103	198	8239	32.939	3997.9	4036.6	Not less than 1800Kg/m^3
2	402	98	202	7958	32.412	4072.9		
3	399	101	199	8020	32.390	4038.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-06-08-24** **Date: 15-05-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80664	455.1	5.6	5.6
2	399	201	80182	454.2	5.7	
3	401	202	81194	455.2	5.6	
4	402	203	81376	459.8	5.6	
5	400	202	80696	455.3	5.6	
6	400	200	80213	453.6	5.7	
7	399	199	79562	452.1	5.7	
8	400	200	80258	453.6	5.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:

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Quality Manager

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Date: 15-05-20

Lab ID : CP-2020-06-08-24

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	202	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	399	201	203	
3	401	202	200	
4	402	203	203	
5	400	202	203	
6	400	200	200	
7	399	199	199	
8	400	200	203	
9	401	200	199	
10	399	201	199	
11	399	200	201	
12	400	201	201	
13	401	202	202	
14	403	203	199	
15	403	199	203	
16	402	201	203	
17	402	202	201	
18	401	203	200	
19	404	202	202	
20	401	202	199	
Average of 20	**401**	**201**	**201**	

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	*CP-2020-06-08-24* **Date: 15-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-05-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	201	198	15919	31.333	1968.3	1987.8	Not less than 1800Kg/m^3
2	404	202	200	16322	32.204	1973.1		
3	399	198	200	15800	31.951	2022.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/05/2020

Lab ID	:	**CP-2020-06-08-24**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-20
Customer ID	:	TF Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	TF Column Concrete	M25	09/05/2020	16/05/2020	151.60 X 149.76 X 150.55	22703	**8.384**	530.5	23.4	22.8
2	TF Column Concrete	M25	09/05/2020	16/05/2020	149.08 X 151.46 X 150.21	22581	**8.405**	518.5	23.0	
3	TF Column Concrete	M25	09/05/2020	16/05/2020	150.99 X 149.10 X 151.51	22513	**8.142**	496.2	22.0	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-06-08-24** **Date: 21/05/2020**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03

Agency : Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/159/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-20

Customer ID : Column Concrete for Water Tank

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete for Water Tank	M25	14/05/2020	21/05/2020	151.81 X 151.27 X 151.88	22964	**8.384**	546.1	23.8	22.9
2	Column Concrete for Water Tank	M25	14/05/2020	21/05/2020	151.51 X 149.58 X 151.12	22662	**8.405**	517.7	22.8	
3	Column Concrete for Water Tank	M25	14/05/2020	21/05/2020	149.55 X 149.77 X 149.09	22397	**8.142**	497.3	22.2	

Note:
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Quality Manager

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2020-06-08-24** **Date: 22-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-20
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	16-05-20

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	**300**		**300**		**6.05**			

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2020-06-08-24** **Date: 29-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-05-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2020-06-08-24 Date: 29-05-20

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	–
5	*Loose Bulk Density (Kg/litre)	1.73	–

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-06-08-24** **Date: 30-05-20**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction Of Head Room, Overhead Tank Providing Sanitary Water Supply Connections And Electrical Works To Marriage Community Hall Building At Chikkabettahalli In Ward No. 03
Agency	:	Sri.H.V.Onkarappa, # 27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/159/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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